

Notice of Allowability

Application No.

10/759,388

Examiner

Michael t. Tran

Applicant(s)

FUJIWARA, YOSHINORI

Art Unit

2827

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed September 13, 2006.
2. ☒ The allowed claim(s) is/are 1,2 and 4-33.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


MICHAEL T. TRAN
PRIMARY EXAMINER

DETAILED ACTION

1. In response to the Communication dated September 13, 2006, claims 1, 2 and 4-33 are active in this application as a result of the cancellation of claim 3.

Drawings

2. The drawings filed January 15, 2004 have been approved.

Allowable Subject Matter

3. Claims 1, 2 and 4-33 are allowable over the prior art of record.
4. The following is an Examiner's statement of reasons for the indication of allowable subject matter: the prior art of records does not show (in addition to the other elements in the claim) the following:
- Receiving a subsequent pulse of said signal, said subsequent pulse having the same logical value as said first pulse; and deactivating said word line in response to said receiving a subsequent pulse.
 - Deactivating only said word line in response to receiving said second signal, a fourth signal, and a subsequent pulse of said third signal, said pulse and said subsequent pulse having the same logical value.
 - Generating a sequential series of signal pulses, each said pulse operative to activate a word line and having the same logical value; deactivating only said one selected word line in response to one of said signal pulses.

- A memory chip coupled to said memory controller, said memory chip comprising an array of memory cells, word lines, address decoder logic, and a latch circuit that outputs a signal indicating activation of a word line in response to receiving a first signal pulse of an activate signal and that outputs a signal indicating deactivation of said word line in response to receiving a deactivate-enable signal and a subsequent signal pulse of said activate signal.
- Means for deactivating only said word line in response to receiving said second signal, a fourth signal, and a subsequent pulse of said third signal, said subsequent pulse having the same logical value as said pulse.
- Deactivating comprises deactivating one of said word lines in response to receiving a signal pulse, the other of said word lines remaining active, other pulses of said signal used to activate said word lines.
- Selecting a subplurality of word lines to be deactivated, said subplurality consisting of less than all of said activated plurality of word lines; receiving a subsequent pulse of said signal; and deactivating said subplurality of word lines in response to said receiving a subsequent pulse.
- Receiving a subsequent activate signal pulse after said activating; and deactivating only said word line corresponding to said one address signal in response to said receiving a subsequent activate signal pulse.

Conclusion

5. When responding to the Office action, Applicants are advised to provide the

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Examiner with line and page numbers of the application and/or references cited to assist the Examiner in the prosecution of this case.

6. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Michael T. Tran whose telephone number is (571) 272-1795. The Examiner can normally be reached on Monday-Thursday from 7:30-6:00 P.M.

7. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-1650.



Michael T. Tran

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September 20, 2006

MICHAEL TRAN
PRIMARY EXAMINER